

In the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1 1. (Currently Amended) A self-contained, portable music
2 player comprising:

3 a rechargeable battery pack for powering the music player;

4 an input/output device including at least a keypad for
5 receiving user inputs and a display;

6 a memory capable of storing digital music in at least one
7 compressed digital format;

8 a data processor connected to said input/output device and
9 said memory, said data processor programmed to decompress said
10 digital music into uncompressed digital music samples;

11 an audio coder-decoder connected to said ~~connected to said~~
12 data processor for receiving said uncompressed digital music
13 samples from said data processor and converting said uncompressed
14 digital music samples into analog music;

15 a headset connector connected to said audio coder-decoder for
16 supplying said analog music to an external headset earphone; and

17 a base connector including

18 a power connection connected to said rechargeable battery
19 pack capable of receiving charging power from an external base
20 unit, ~~and~~

21 an analog output connection connected to said audio
22 coder-decoder for supplying said analog music to an external
23 base unit for amplification and reproduction via speakers, and

24 an analog input connection connected to said audio coder-
25 decoder for receiving an analog input from an external base
26 unit;

27 wherein the self-contained, portable music player operates in

28 a portable mode disconnected from a base unit and powered
29 by said rechargeable battery pack, wherein a user may listen
30 to selected digital music stored in said memory via an
31 external headset earphone, and
32 in a base mode connected to a base unit via said base
33 connector and powered via said power connector, wherein a user
34 may listen to selected digital music stored in said memory via
35 speakers of an external base unit and wherein a user may
36 listen to music received on said analog input connection of
37 said base connector.

1 2. (Original) The self-contained, portable music player of
2 claim 1, wherein:
3 said data processor is further programmed in cooperation with
4 input/output device said whereby a user may enter volume control
5 data via said keypad; and
6 said base connector further includes a volume data connection
7 for transmission of volume control data from the self-contained,
8 portable music player to an external base unit.

1 3. (Original) The self-contained, portable music player of
2 claim 1, wherein:
3 said base connector further includes a set of digital
4 connections connected to said data processor and said audio coder-
5 decoder for bi-directional transmission of digital data with an
6 external base unit.

1 4. (Original) The self-contained, portable music player of
2 claim 1, further comprising:
3 an infrared transmission interface connected to said data
4 processor for bi-directional transmission of digital data with an
5 external base unit.

1 5. (Original) The self-contained, portable music player of
2 claim 1, further comprising:

3 a microphone;

4 a pre-amplifier having an input connected to said microphone
5 and an output connected to said audio coder-decoder;

6 wherein said audio coder-decoder digitizes sound received by
7 said microphone, said data processor programmed to store said
8 digitized sounds in said memory.

1 6. (Original) The self-contained, portable music player of
2 claim 5, wherein:

3 said data processor is further programmed to compress said
4 digitized sounds into a compressed digital format and store said
5 compressed digital format in said memory.

1 7. (Original) The self-contained, portable music player of
2 claim 5, wherein:

3 said data processor is further programmed to

4 recall digitized sounds stored in said memory, and

5 compress said recalled digitized sounds into a compressed
6 digital format and store said compressed digital format in
7 said memory.

1 8. (Currently Amended) The self-contained, portable music
2 player of claim 1, wherein:

3 ~~said base connector further includes an analog input~~
4 ~~connection connected to said audio coder-decoder for receiving an~~
5 ~~analog input from an external base unit; and~~

6 wherein said audio coder-decoder digitizes analog input
7 received via said analog input connection, said data processor
8 programmed to store said digitized analog input in said memory.

1 9. (Original) The self-contained, portable music player of
2 claim 8, wherein:

3 said data processor is further programmed to compress said
4 digitized analog input into a compressed digital format and store
5 said compressed digital format in said memory.

1 10. (Original) The self-contained, portable music player of
2 claim 8, wherein:

3 said data processor is further programmed to
4 recall digitized analog input stored in said memory, and
5 compress said recalled digitized analog input into a
6 compressed digital format and store said compressed digital
7 format in said memory.

1 11. (Original) The self-contained, portable music player of
2 claim 1, wherein:

3 said memory is a non-volatile memory capable of retaining data
4 in the absence of electric power.

1 12. (Original) The self-contained, portable music player of
2 claim 1, wherein:

3 said data processor is a digital signal processor.

1 13. (Currently Amended) A music system comprising:
2 a self-contained, portable music player including
3 a rechargeable battery pack for powering the music
4 player,

5 an input/output device including at least a keypad for
6 receiving user inputs and a display;

7 a memory capable of storing digital music in at least one
8 compressed digital format,

9 a data processor connected to said input/output device
10 and said memory, said data processor programmed to decompress
11 said digital music into uncompressed digital music samples,
12 an audio coder-decoder connected to said ~~connected to~~
13 ~~said~~ data processor for receiving said uncompressed digital
14 music samples from said data processor and converting said
15 uncompressed digital music samples into analog music,
16 a headset connector connected to said audio coder-decoder
17 for supplying said analog music to an external headset
18 earphone, and
19 a first base connector including
20 a first power connection connected to said
21 rechargeable battery pack capable of receiving charging
22 power from an external base unit, and
23 a player analog output connection connected to said
24 audio coder-decoder for supplying said analog music, and
25 an analog input connection connected to said audio
26 coder-decoder for receiving an analog input; and
27 a base unit including
28 a second base connector including
29 a second power connection for connection to said
30 first power connection,
31 an analog input connection for connection to said
32 player analog output connection of said first base
33 connector,
34 a base unit analog output connection for connection
35 to said analog input connection of said first base
36 connector,
37 a power source connected to said second power connection
38 for supplying recharging power for said rechargeable battery
39 ~~pack,~~ pack,

40 a pre-amplifier having an input connected to said analog
41 input connection and an output,

42 a power amplifier having an input connected to said
43 output of said pre-amplifier and an output,

44 a tuner for receiving and demodulating analog audio
45 signals, said tuner supplying said analog audio signals to
46 said base unit analog output connection, and

47 a speaker system connected to said output of said power
48 amplifier for reproducing sound corresponding to said output
49 of said power amplifier,

50 wherein the music system operates in

51 a portable mode wherein said self-contained, portable
52 music player is disconnected from said base unit and powered
53 by said rechargeable battery pack, wherein a user may listen
54 to selected digital music stored in said memory via an
55 external headset earphone, and

56 in a base mode wherein said self-contained, portable
57 music player is connected to said base unit via said first
58 base connector and said second base connector and powered from
59 said power source, wherein a user may listen to selected
60 digital music stored in said memory via speakers of an
61 external base unit and wherein a user may listen to music from
62 said tuner supplied to said analog input connection of said
63 first base connector.

1 14. (Original) The music system of claim 13, wherein:

2 said data processor is further programmed in cooperation with
3 input/output device said whereby a user may enter volume control
4 data via said keypad;

5 said first base connector further includes a volume data
6 output connection for transmission of volume control data from the
7 self-contained, portable music player;

8 said second base connector further includes a volume data
9 input connection for connection to said volume data output
10 connection; and

11 said pre-amplifier is further connected to said volume data
12 input connection and producing an amount of amplification
13 corresponding thereto.

1 15. (Original) The music system of claim 13, wherein:

2 said first base connector further includes a set of first
3 digital connections connected to said data processor and said audio
4 coder-decoder for bi-directional transmission of digital data with
5 an external base unit;

6 said second base connector further includes a set of second
7 digital connections for connection to said set of first digital
8 connections; and

9 said base unit further includes a disc drive connected to said
10 set of second digital connections of said second base connector
11 capable of storing and recalling digital data.

1 16. (Original) The music system of claim 13, further
2 comprising:

3 an infrared transmission interface connected to said data
4 processor for bi-directional transmission of digital data with an
5 external base unit.

1 17. (Original) The music system of claim 1, further
2 comprising:

3 a microphone;

4 a pre-amplifier having an input connected to said microphone
5 and an output connected to said audio coder-decoder;

6 wherein said audio coder-decoder digitizes sound received by
7 said microphone, said data processor programmed to store said
8 digitized sounds in said memory.

1 18. (Original) The music system of claim 17, wherein:
2 said data processor is further programmed to compress said
3 digitized sounds into a compressed digital format and store said
4 compressed digital format in said memory.

1 19. (Original) The music system of claim 17, wherein:
2 said data processor is further programmed to
3 recall digitized sounds stored in said memory, and
4 compress said recalled digitized sounds into a compressed
5 digital format and store said compressed digital format in
6 said memory.

1 20. (Currently Amended) The music system of claim 13,
2 wherein:
3 ~~said base unit further includes a tuner for receiving and~~
4 ~~demodulating analog audio signals;~~
5 ~~said first base connector further includes a base unit analog~~
6 ~~output connection~~
7 ~~said first base connector further includes a player analog~~
8 ~~input connection connected to said audio coder-decoder for~~
9 ~~receiving an analog input from said base unit;~~
10 wherein said audio coder-decoder digitizes analog input
11 received via said player analog input connection, said data
12 processor programmed to store said digitized analog input in said
13 memory.

1 21. (Original) The music system of claim 20, wherein:
2 said data processor is further programmed to compress said
3 digitized analog input into a compressed digital format and store
4 said compressed digital format in said memory.

1 22. (Original) The music system of claim 20, wherein:
2 said data processor is further programmed to
3 recall digitized analog input stored in said memory, and
4 compress said recalled digitized analog input into a
5 compressed digital format and store said compressed digital
6 format in said memory.

1 23. (Original) The music system of claim 13, wherein:
2 said memory is a non-volatile memory capable of retaining data
3 in the absence of electric power.

1 24. (Original) The music system of claim 13, wherein:
2 said data processor is a digital signal processor.

1 25. (Currently Amended) A base unit for use with a self-
2 contained, portable music player comprising:
3 a tuner for receiving and demodulating analog audio signals;
4 a base connector including
5 a power connection,
6 an analog input connection for receiving an analog input,
7 a base unit analog output connection connected to said
8 tuner to output demodulated analog audio signals;
9 a power source connected to said power connection for
10 supplying recharging power for the self-contained, portable music
11 player;
12 a pre-amplifier having an input connected to said analog input
13 connection and an output,

14 a power amplifier having an input connected to said output of
15 said pre-amplifier and an output, and
16 a speaker system connected to said output of said power
17 amplifier for reproducing sound corresponding to said output of
18 said power amplifier.

1 26. (Original) The base unit of claim 25, wherein:
2 said base connector further includes a volume data input
3 connection for receiving of volume control data from the self-
4 contained, portable music player;
5 said pre-amplifier is further connected to said volume data
6 input connection and producing an amount of amplification
7 corresponding thereto.

1 27. (Original) The base unit of claim 25, wherein:
2 said base connector further includes a set of digital
3 connections for connection to a set of digital connections of the
4 self-contained, portable music player; and
5 said base unit further includes a disc drive connected to said
6 digital connections of said base connector capable of storing and
7 recalling digital data.

28. (Canceled)

1 29. (New) The self-contained, portable music player of claim
2 1, wherein:
3 said base connector further includes a digital data bus
4 connection for bidirectional data exchange; and
5 said data processor being further connected to said digital
6 data bus connection of said base connector for communicating
7 station selection data corresponding to inputs received from said

8 input/output device via said digital data bus connection to the
9 base unit.

1 30. (New) The music system of claim 13, wherein:
2 said self-contained, portable music player wherein
3 said first base connector further includes a first
4 digital data bus connection for bidirectional data exchange
5 and
6 said data processor being further connected to said first
7 digital data bus connection of said base connector for
8 communicating station selection data corresponding to inputs
9 received from said input/output device via said first digital
10 data bus connection to the base unit;
11 said base unit wherein
12 said second base connector further includes a second
13 digital data bus connection for connection to said first
14 digital data bus connection for receiving digital data
15 including station selection data, and
16 said tuner being connected to said second digital data
17 bus connection and further selecting a station corresponding
18 to said station selection data.

1 31. (New) The base unit of claim 25, wherein:
2 said base connector further includes a digital data bus
3 connection for receiving digital data including station selection
4 data; and
5 said tuner being connected to said digital data bus connection
6 and further selecting a station corresponding to said station
7 selection data.